

1/35

1 2 3 4



Fig. 1

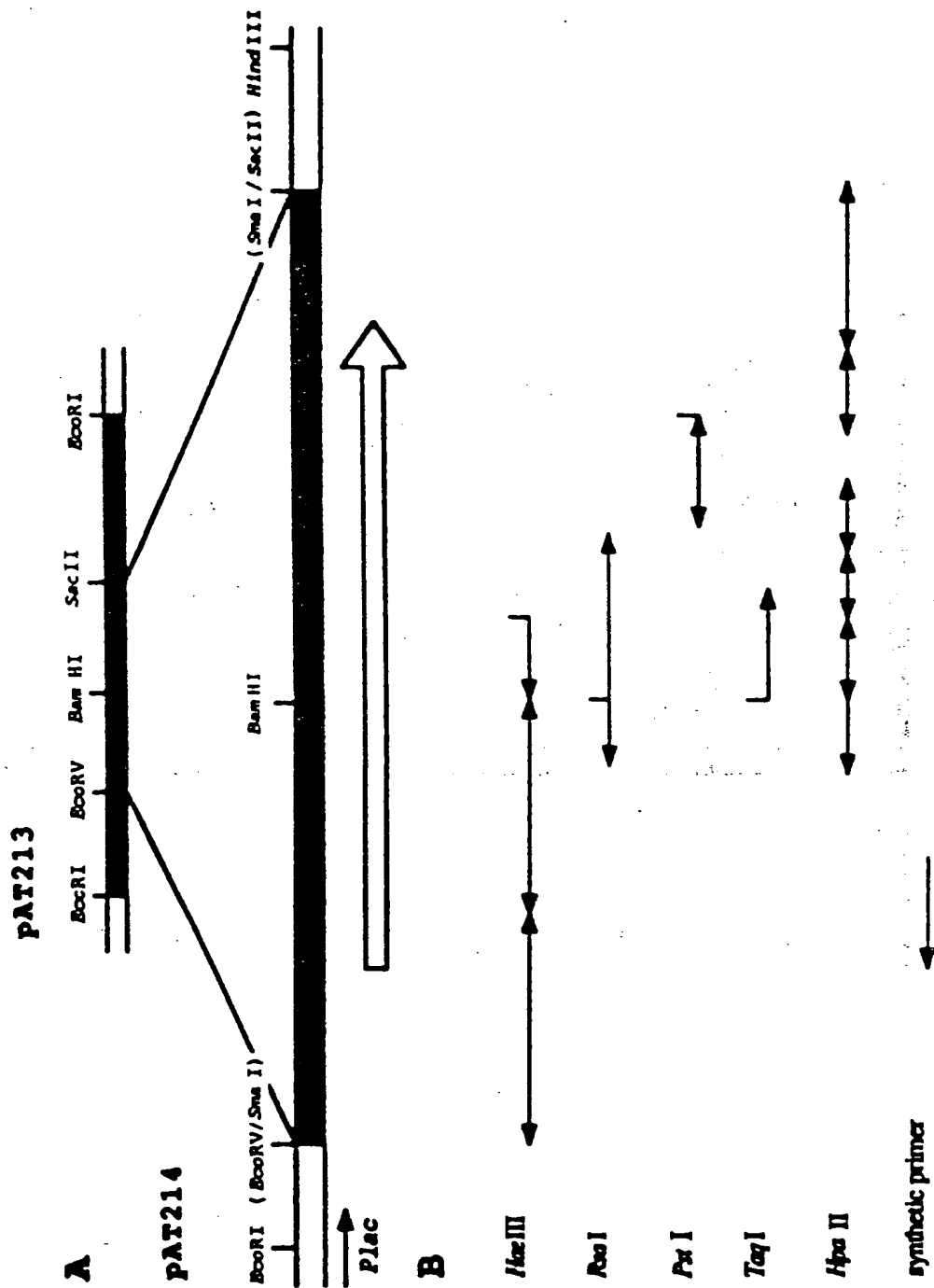
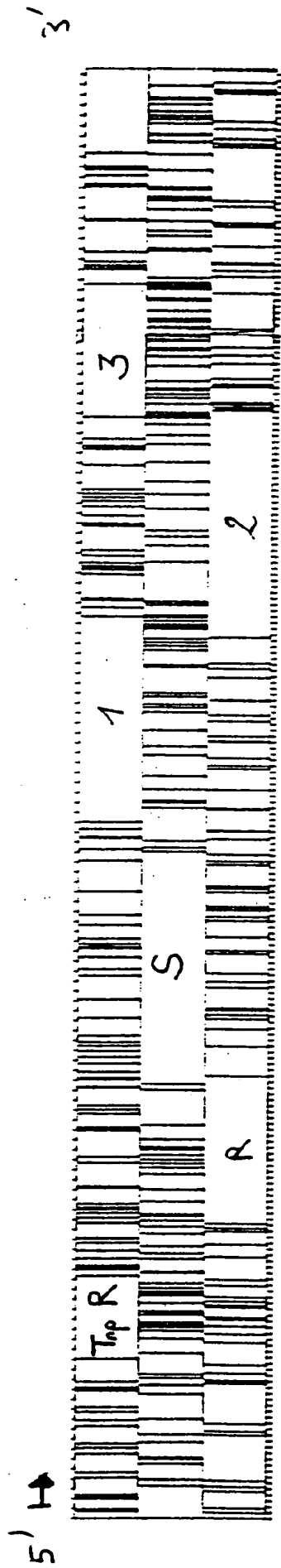


Fig. 2



7200 bp

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5'

H

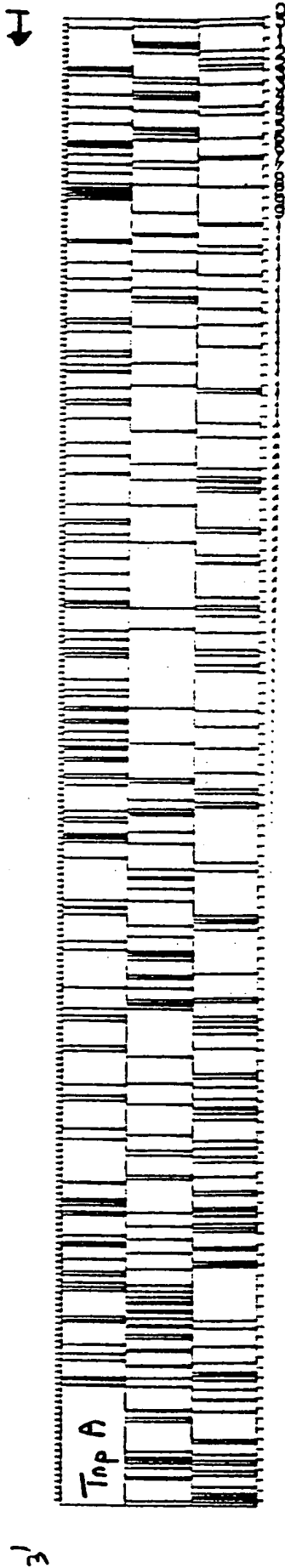
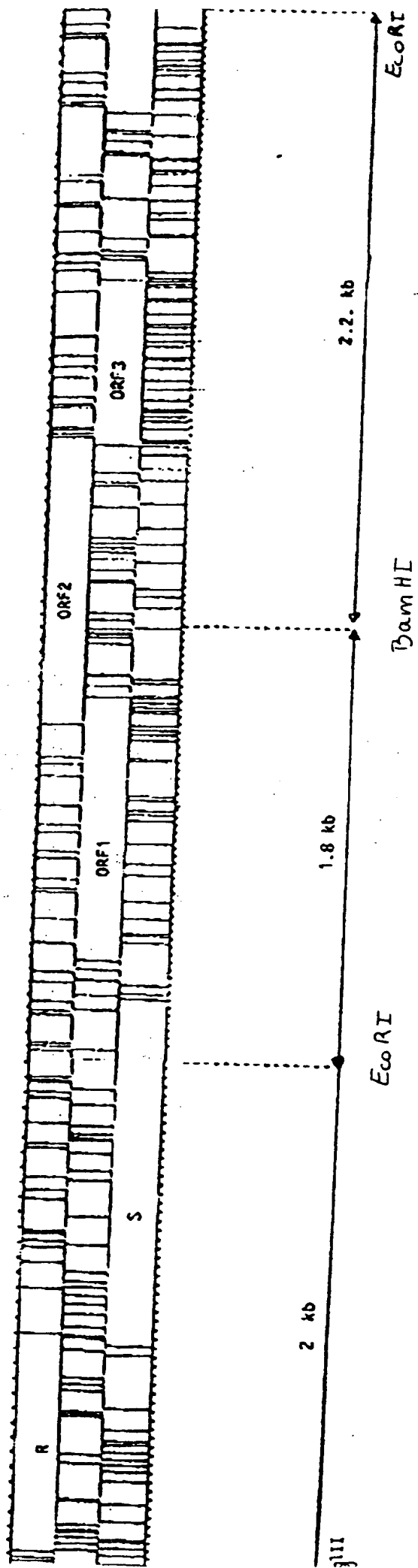


Fig. 3 (1/2)



AAGCTTTTCTTTTGGCTCATTTGTTAGAGATTTACTAACCGTATTAAATAGCTTCTTTTC
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TTTGTTTTTCTTAGAAATCTATGCATTCATGCGTAGATGAATGGCATCACCATTTTC
CAAAGCTAATTGATGAAGGTACTTAAATGTCTATTCGATATTCACCTCAGGGTAAAGTTAC
AAAGTCGTATTCACCTTCGAATTTCTTCAAAATGATCCCAAGTGATTTTCCCTTGAGG
ATAATGATCAAGCGAGGTGGACTAACACCAATCTGTTTCGATATATATTGTATGACCGA
ATCTGGGATGCTTTTGATATGAGTGATGGCCAACCGGGATACCGAAGAACAGCTAATTG
AACAGSCAAATCCTAAACGGTTTCTTCCCTCCCTTCTTAACTATTTCTAAATCCCG
TTTGGAAAAAGTGAGTAGGTCGCCAGTATCCATTCATCTTCAGGGATTTGCAATAAAGC
CTGTCTCTGTTCCGCTGTAAGCAATCTCTACCTCTCGCAATTTTCATTTCAGTATCATTC
CATTCTGTATTTTCAATTTATAGTTCAATATATATATCAATAGAGTGTACTCTATTGAT
ACAAATGTAGTAGACTGATAAAATCATAGTTAAGAGCGTCTCATAGACTTGTCTCAAAA
ATGAGGTGATATTTTGGGAAATCGGTTATATTCGTGTCAGTTCGACTAACCGAATCC
TTCAGAGACAAATTCAGCAGTTGAACGAGATCGGAATGGATATTATATAAGAGAAAGTTT
CAGGAGCAACAAGGATCGCGAGCAACTTCAAAAGTGTAGACGATTTACAGGAAGATG
ACATCATTTATGTTACAGACTTAACTCGAATCACTCGTAGTACACCAAGATCTATTTGAAT
TAATCGATAACATACGAGATAAAAGGCAAGTTTAAATCACTAAAGGATACATGGCTTG
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AATTAGAGCGAGATCTTATTCGGATGAGACACCGTGAGGGATTGAATGGCTAAGAAAG
AAGSAAAGTTTAAAGGTGATTAAGAGAGTATCATAAAATCAGCAGGAATGAATTATG
CGGXAAAGCTATATAAGAGAGGAAATATGACTGTAAATCAAAATTTGTGAATTAATAAT
GTATCTAGGGCTTCATTTATACAGGAAATTTATCAGAAAGTGAAATAATTAGCCATTCTGTATT
CCGCTAATGGGCAATATTTTAAAGAGAAAGAACTATAAAATATTAAACAGCCTCCT
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CGACGAGTTTGTGAGATTACACGGTATAACCTACAAACGATACGCTAACAAACGCA
CATAGACCTATACTATATGCTGTTGCAGATGACCGATGAATTTATCTCAGCTTCCGC
ACATGGAAACAGCGGTTATTCAGGCCCGGAGGATCTGACCGTGTCCGGCACCCTGA

Fig. 4 (2/5)

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TAAACTCGGAGAGTCTTTAACACACATTTTGAAAAACGCCGCTGCATACAGTGAGGATAA
CASCATCATTGACATTACCGGGGCTCTCCGGGGATGTGGTGTCATCGAATTCAGAGAA
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AATTTTTAGGAAATCTCAAGGTATCTTTACTTTTCTTAGGAAATTAAACAATTTAAT
ATTAGAAACGGCTCGTTCTTACACGGTAGACTTAATACCGTAAGAACGAGCCGTTTTCG
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CACAGAAAGGTTGGTCTTAATTATGAATAACATCGGCATTACTGTTTATGGATGTGAGC
AGGATGAGGCAGATGCAATCCATGCTCTTTCGCCCTCGCTTTGGCGTTATGGCAACGATAA
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GAACGGGCCAGATAGGCAAGCGGTTATTGAGCGGCTGCGAGGATTGGATGTAAAGTGT
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CACTTGTAGATACCTATGAGTTGGTTAAAGCATTAGAAACGGGAACCTGGCGGTGCCG
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AGCATAAATTCAGGTTTATCACTAGATGTAGGATCAAGCTTGACGAAATGGAACGAGCCC
CTGAAGGAAGTGGATAGAAGAAATGCTTGGAAATACGGGTTCAATTTACGTTATCCAG
AGGACAAACAGAGTTAACAGGAATTC

Fig. 4 (5/5)

LysLeuPhePheLeuLeuIleCys***ArgPheThrAsnArgIleLys***LeuLeuPh
 SerPheSerPheCysSerPheValArgAspLeuLeuThrValLeuAsnSerPhePheSer
 AlaPheLeuPheAlaHisLeuLeuGluIleTyr***ProTyr***IleAlaSerPheGln
 AAGCTTTTCTTTTGTCTCATTGTTAGAGATTACTAACCGTATTAAATAGCTTCTTTTC

 SerHisCysProCysPheProHisHisSerPheLysCysSerAspSerArgGlnTyrAsn
 AlaIleAlaLeuAlaSerHisThrIleLeuSerSerValValIleAlaGlySerIleIle
 ProLeuProLeuLeuProThrProPhePheGlnVal*****GlnAlaVal***Phe
 AGCCATTGCCCTTGCTTCCCACACCATTCTTTCAAGTGTAGTGATAGCAGGCAGTATAAT
 100
 PheValPheSer***LysIleTyrAlaPheMetGln***MetAsnGlyIleThrIlePhe
 LeuPhePheLeuArgLysSerMetHisSerCysSerArg***MetAlaSerProPheSer
 CysPhePheLeuGluAsnLeuCysIleHisAlaValAspGluTrpHisHisHisPhePro
 TTTGTTTTTTCTTAGAAAATCTATGCATTCATGCAGTAGATGAATGGCATCACCATTTTC

 GlnSer***LeuMetLysValLeuLysCysHisSerIlePheThrGlnGlyLysSerTyr
 LysAlaAsn*****ArgTyrLeuAsnValIleArgTyrSerLeuArgValLysValThr
 LysLeuIleAspGluGlyThr***MetSerPheAspIleHisSerGly***LysLeuGln
 CAAAGCTAATTGATGAAGGTACTTAAATGTCATTCGATATTCCTCAGGGTAAAAGTTAC
 200

 LysValValPheThrSerAsnPhePheGlnMetIleProLysCysIlePheProLeuArg
 LysSerTyrSerLeuArgIleSerPheLys***SerGlnSerValPheSerLeu***Gly
 SerArgIleHisPheGluPheLeuSerAsnAspProLysValTyrPheProPheGluAsp
 AAAGTCGTATTCACTTCGAATTTCTTTCAAATGATCCCAAAGTGTATTTCCCTTTGAGG
 300

IleMetIleLysArgGlyTrpThrAsnThrAsnLeuPheArgTyrIleLeuTyrAspArg
 *****SerSerGluAspGlyLeuThrProIleCysPheAspIleTyrCysMetThrGlu
 AsnAspGlnAlaArgMetAsp***HisGlnSerValSerIleTyrIleVal***ProAsn
 ATAATGATCAAGCGAGGATGGACTAACACCAATCTGTTTCGATATATATTGTATGACCGA

IleTrpAspAlaPheAspMetSerValTrpProThrGlyIleProLysAsnSer***Leu
 SerGlyMetLeuLeuIle***ValTyrGlyGlnProGlyTyrArgArgThrAlaAsn***
 LeuGlyCysPhe***TyrGluCysMetAlaAsnArgAspThrGluGluGlnLeuIleGlu
 ATCTGGGATGCTTTTGATATGAGTGTATGGCCAACCGGATACCGAAGAACAGCTAATTG

400

AsnSerLysSer***ThrValPhePheProProSerLeuIleAsnTyrPhe***IlePro
 ThrAlaAsnProLysArgPheSerSerLeuLeuArgLeuLeuThrIleSerLysSerArg
 GlnGlnIleLeuAsnGlyPheLeuProSerPheAlaTyr***LeuPheLeuAsnProVal
 AACAGCAAATCCTAAACGGTTTTCTTCCCTCCTTCGCTTATTACTATTTCTAAATCCCG

PheGlyLysSerGluValGlyProGlnTyrProPheIlePheArgAspLeuHisLysSer
 LeuGluLysValLys***ValProSerIleHisSerSerSerGlyIleCysIleLysAla
 TrpLysLys***SerArgSerProValSerIleHisLeuGlnGlyPheAla***LysPro
 TTTGGAAAAAGTGAAGTAGGTCCCCAGTATCCATTCATCTTCAGGGATTGCATAAAAGC

500

LeuSerLeuPheArgCysLysGlnPheSerThrSerArgAsnPheHisSerValSerPhe
 CysLeuCysSerGlyValSerAsnSerLeuProLeuAlaIlePheIleGlnTyrHisSer
 ValSerValProVal***AlaIleLeuTyrLeuSerGlnPheSerPheSerIleIlePro
 CTGTCTCTGTTCCGGTGTAAGCAATTCTCTACCTCTCGCAATTTTCATTTCAGTATCATTC

600

HisPheCysIlePheAsnLeuLeuValGlnLeuTyrIleAsnArgValTyrSerIleAsp
 IleSerValPheSerIleTyr***PheAsnTyrIleSerIleGluCysThrLeuLeuIle
 PheLeuTyrPheGlnPheIleSerSerIleIleTyrGln***SerValLeuTyr***Tyr
 CATTTCTGTATTTTCAATTTATTAGTTCAATTATATATCAATAGAGTGTACTCTATTGAT

ThrAsnValValAsp*****AsnHisSer***GluArgLeuIleArgLeuValSerLys
 GlnMet*****ThrAspLysIleIleValLysSerValSer***AspLeuSerGlnLys
 LysCysSerArgLeuIleLysSer***LeuArgAlaSerHisLysThrCysLeuLysAsn

ACAAATGTAGTAGACTGATAAAATCATAGTTAAGAGCGTCTCATAAGACTTGTCTCAAAA

700

MetArg***TyrPheAlaGluAsnArgLeuTyrSerCysGlnPheAsp***ProGluSer
 ***GlyAspIleLeuArgLysIleGlyTyrIleArgValSerSerThrAsnGlnAsnPro
 GluValIlePheCysGlyLysSerValIlePheValSerValArgLeuThrArgIleLeu
 ATGAGGTGATATTTTGCAGGAAAATCGGTTATATTCGTGTCAGTTCGACTAACCAGAATCC

PheLysThrIleSerAlaValGluArgAspArgAsnGlyTyrTyrIleLysArgLysPhe
 SerArgGlnPheGlnGlnLeuAsnGluIleGlyMetAspIleIle***ArgGluSerPhe
 GlnAspAsnPheSerSer***ThrArgSerGluTrpIleLeuTyrLysGluLysValSer
 TTCAAGACAATTTTCAGCAGTTGAACGAGATCGGAATGGATATTATATAAAGAGAAAGTTT

800

GlnGluGlnGlnArgIleAlaSerAsnPheLysLysCys***ThrIleTyrArgLysMet
 ArgSerAsnLysGlySerArgAlaThrSerLysSerValArgArgPheThrGlyArg***
 GlyAlaThrLysAspArgGluGlnLeuGlnLysValLeuAspAspLeuGlnGluAspAsp
 CAGGAGCAACAAAGGATCGCGAGCAACTTCAAAAAGTGTTAGACGATTTACAGGAAGATG

900

ThrSerPheMetLeuGlnThr***LeuGluSerLeuValValHisLysIleTyrLeuAsn
 HisHisLeuCysTyrArgLeuAsnSerAsnHisSer***TyrThrArgSerIle***Ile
 IleIleTyrValThrAspLeuThrArgIleThrArgSerThrGlnAspLeuPheGluLeu
 ACATCATTATGTTACAGACTTAACCTCGAATCACTCGTAGTACACAAGATCTATTTGAAT

SerIleThrTyrGluIleLysArgGlnValAsnHis***LysIleHisGlyLeu
 AsnArg***HisThrArg***LysGlyLysPheLysIleThrLysArgTyrMetAla***
 IleAspAsnIleArgAspLysLysAlaSerLeuLysSerLeuLysAspThrTrpLeuAsp

TAATCGATAACATACGAGATAAAAAGGCAAGTTTAAATCACTAAAAGATACATGGCTTG

1000

IleTyrGlnLysIleIleHisThrAlaAsnSer***LeuLeu***TrpLeuValLeuThr
 PheIleArgArg***SerIleGlnProIleLeuAsnTyrCysAsnGlyTrpCys***Pro

LeuSerGluAspAsnProTyrSerGlnPheLeuIleThrValMetAlaGlyValAsnGln
 ATTTATCAGAAGATAATCCATACAGCCAATTCTTAATTACTGTAATGGCTGGTGTAAACC

Asn***SerGluIleLeuPheGly***AspAsnValLysGlyLeuAsnTrpLeuArgLys
 IleArgAlaArgSerTyrSerAspGluThrThr***ArgAsp***IleGly***GluArg

LeuGluArgAspLeuIleArgMetArgGlnArgGluGlyIleGluLeuAlaLysLysGlu
 AATTAGAGCGAGATCTTATTCGGATGAGACAACGTGAAGGGATTGAATTGGCTAAGAAAG

1100

LysGluSerLeuLysValAsp***ArgSerIleIleLysIleThrGlnGlu***IleMet
 ArgLysVal***ArgSerIleLysGluValSer***LysSerArgArgAsnGluLeuCys

GlyLysPheLysGlyArgLeuLysLysTyrHisLysAsnHisAlaGlyMetAsnTyrAla
 AAGGAAAGTTTAAAGGTCGATTAAAGAAGTATCATAAAAATCACGCAGGAATGAATTATG

1200

ArgArgLysLeuTyrLysGluGlyAsnMetThrValAsnGlnIleCysGluIleThrAsn
 GlyGluSerTyrIleLysLysGluIle***Leu***IleLysPheValLysLeuLeuMet
 AlaLysAlaIle***ArgArgLysTyrAspCysLysSerAsnLeu***AsnTyr***Cys
 CGGXXAAAGCTATATAAAGAAGGAAATATGACTGTAAATCAAATTTGTGAAATTACTAAT

ValSerArgAlaSerLeuTyrArgLysLeuSerGluValAsnAsn***ProPheCysIle
 TyrLeuGlyLeuHisTyrThrGlyAsnTyrGlnLys***IleIleSerHisSerValPhe
 Ile***GlyPheIleIleGlnGluIleIleArgSerGlu***LeuAlaIleLeuTyrSer
 GTATCTAGGGCTTCATTATACAGGAAATTATCAGAAGTGAATAATTAGCCATTCTGTATT

1300

ProLeuMetGlyAsnIlePheLysGluGluLysGluThrIleLysTyr***GlnProPro
 Arg***TrpAlaIlePheLeuLysLysLysArgLysLeu***AsnIleAsnSerLeuLeu
 AlaAsnGlyGlnTyrPhe***ArgArgLysGlyAsnTyrLysIleLeuThrAlaSer***
 CCGCTAATGGGCAATATTTTTAAAGAAGAAAAGGAACTATAAATATTAACAGCCTCCT

SerAspAlaGluLysProPheAspLysLysArgIleIleIleLeuArgAsnSer***Ser
 AlaMetProLysSerProLeuIleLysLysGluSerSerSer***GluIleLeuSerHis
 ArgCysArgLysAlaLeu*****LysLysAsnHisHisLeuLysLysPheLeuValIle
 AGCGATGCCGAAAAGCCCTTTGATAAAAAAGAATCATCATCTTAAGAAATTCTTAGTCA

1400

PheIleMet***MetLeuIleAsnSerAlaLeu***SerAspLysLeuLeuArgAlaAsn
 LeuLeuCysLysCysLeu***IleArgProTyrAsnLeuIleAsnTyr***GlyGlnThr
 TyrTyrValAsnAlaTyrLysPheGlyProIleIle*****IleIleLysGlyLysLeu
 TTTATTATGTAAATGCTTATAAATTCGGCCCTATAATCTGATAAATTATTAAGGGCAAAC

1500

LeuCysGluArgValIleThrMetSerAspLysIleLeuIleValAspAspGluHisGlu
 TyrValLysGly*****Leu***AlaIleLysTyrLeuLeuTrpMetMetAsnMetLys
 Met***LysGlyAspAsnTyrGluArg***AsnThrTyrCysGly*****Thr***Asn
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 CysArgPheGly***IleIleLeuLysLysArgGluLeuTyrGlyPheGlnIleLeuTyr
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1600

ThrAlaLysGluAlaLeuGluCysIleAspLysSerGluIleAspLeuAlaIleLeuAsp
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 ArgGlnArgSerIleGlyMetTyrArgGlnVal***Asp***ProCysHisIleGlyHis
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IleMetLeuProGlyThrSerGlyLeuThrIleCysGlnLysIleArgAspLysHisThr
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 HisAlaSerArgHisLysArgProTyrTyrLeuSerLysAsnLysGlyGlnAlaHisLeu
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1700

TyrProIleIleMetLeuThrGlyLysAspThrGluValAspLysIleThrGlyLeuThr
 IleArgLeuSerCys***ProGlyLysIleGlnArg***IleLysLeuGlnGly***Gln
 SerAspTyrHisAlaAspArgGluArgTyrArgGlyArg***AsnTyrArgValAsnAsn
 TATCCGATTATCATGCTGACCGGGAAAGATACAGAGGTAGATAAAATTACAGGGTTAACA

1800

IleGlyAlaAspAspTyrIleThrLysProPheArgProLeuGluLeuIleAlaArgVal
 SerAlaArgMetIleIle***ArgSerProPheAlaHisTrpSer***LeuLeuGly***
 ArgArgGly***LeuTyrAsnGluAlaLeuSerProThrGlyValAsnCysSerGlyLys
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LysAlaGlnLeuArgArgTyrLysLysPheSerGlyValLysGluGlnAsnGluAsnVal
 ArgProSerCysAlaAspThrLysAsnSerValGlu***ArgSerArgThrLysMetLeu
 GlyProValAlaProIleGlnLysIleGlnTrpSerLysGlyAlaGluArgLysCysTyr
 AAGGCCCAGTTGCGCCGATACAAAAAATTCAGTGGAGTAAAGGAGCAGAACGAAAATGTT

1900

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 ArgProLeuArgProCysHis***Cys***HisPro***ValLeuSerGluArgGluAla
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GlnLeuSerLeuThrProThrGluPheSerIleLeuArgIleLeuCysGluAsnLysGly
 SerTyrProLeuLeuProProSerPheGlnTyrCysGluSerSerValLysThrArgGly
 ValIleProTyrSerHisArgValPheAsnThrAlaAsnProLeu***LysGlnGlyGlu
 CAGTTATCCCTTACTCCCACCGAGTTTCAATACTGCGAATCCTCTGTGAAAACAAGGGG

2000

AsnValValSerSerGluLeuLeuPheHisGluIleTrpGlyAspGluTyrPheSerLys
 MetTrpLeuAlaProSerCysTyrPheMetArgTyrGlyAlaThrAsnIleSerAlaArg
 CysGly***LeuArgAlaAlaIleSer***AspMetGlyArgArgIlePheGlnGlnGlu
 AATGTGGTTAGCTCCGAGCTGCTATTTTCATGAGATATGGGGCCACGAATATTTTCAGCAAG

2100

17/35

SerAsnAsnThrIleThrValHisIleArgHisLeuArgGluLysMetAsnAspThrIle
AlaThrThrProSerProCysIleSerGlyIleCysAlaLysLys***ThrThrProLeu
GlnGlnHisHisHisArgAlaTyrProAlaPheAlaArgLysAsnGluArgHisHis**
AGCAACAACACCATCACCGTGCATATCCGGCATTGCGCGAAAAAATGAACGACACCATT

AspAsnProLysTyrIleLysThrValTrpGlyValGlyTyrLysIleGluLys***Lys
IleIleArgAsnIle***LysArgTyrGlyGlyLeuValIleLysLeuLysAsnLysLys
SerGluIleTyrLysAsnGlyMetGlyGlyTrpLeuAsn***LysIleLysLys
GATAATCCGAAATATATAAAAACGGTATGGGGGGTTGGTTATAAAATTGAAAAATAAAAA

2200

LysArgLeuPheGlnThrArgThrLysThrLeuHisValTyrArgCysAsnCysCysGly
AsnAspTyrSerLysLeuGluArgLysLeuTyrMetTyrIleValAlaIleValValVal
ThrThrIleProAsn***AsnGluAsnPheThrCysIleSerLeuGlnLeuLeuTrp***
AAACGACTATTCCAAACTAGAACGAAACTTTACATGTATATCGTTGCAATTGTTGTGGT

SerAsnCysIleArgValValTyrSerPheAsnAspProArgGluThrTrpGlyLeuAsp
AlaIleValPheValLeuTyrIleArgSerMetIleArgGlyLysLeuGlyAspTrpIle
GlnLeuTyrSerCysCysIlePheValGln***SerGluGlyAsnLeuGlyIleGlySer
AGCAATTGTATTCGTGTTGTATATTCGTTCAATGATCCGAGGGGAACTTGGGGATTGGAT

2300

LeuLysTyrPheGlyLysGlnIle***LeuLysSerProGlyArgAspGluIleIleSer
LeuSerIleLeuGluAsnLysTyrAspLeuAsnHisLeuAspAlaMetLysLeuTyrGln
ValPheTrpLysThrAsnMetThrIleThrTrpThrArg***AsnTyrIleAsn
CTTAAGTATTTTGGAAAACAAATATGACTTAAATCACCTGGACGCGATGAAATTATATCA

2400

18/35

IlePheHisThrGluGlnTyrArgTyrLeuTyrLeuCysGlyAspCysHis***TyrSer
TyrSerIleArgAsnAsnIleAspIlePheIleTyrValAlaIleValIleSerIleLeu
IleProTyrGlyThrIle***IleSerLeuPheMetTrpArgLeuSerLeuValPheLeu
ATATTCCATACGGAACAATATAGATATCTTTATTTATGTGGCGATTGTCATTAGTATTCT

TyrSerMetSerArgHisAlaPheLysIleArgLysIleLeu***ArgAspLysTyrArg
IleLeuCysArgValMetLeuSerLysPheAlaLysTyrPheAspGluIleAsnThrGly
PheTyrValAlaSerCysPheGlnAsnSerGlnAsnThrLeuThrArg***IleProAla
TATTCTATGTCGCGTCATGCTTTCAAAATTCGCAAAATACTTTGACGAGATAAAATACCGG

2500

His***CysThrTyrSerGluArgArg***ThrAsn***AlaPheCysGlyAsnGlyCys
IleAspValLeuIleGlnAsnGluAspLysGlnIleGluLeuSerAlaGluMetAspVal
LeuMetTyrLeuPheArgThrLysIleAsnLysLeuSerPheLeuArgLysTrpMetLeu
CATTGATGTACTTATTCAGAACGAAGATAAAACAAATTGAGCTTTCTGCGGAAATGGATGT

TyrGlyThrLysAlaGlnHisIleLysThrAspSerGlyLysAlaArgAlaGlyCysLys
MetGluGlnLysLeuAsnThrLeuLysArgThrLeuGluLysArgGluGlnAspAlaLys
TrpAsnLysSerSerThrHis***AsnGlyLeuTrpLysSerGluSerArgMetGlnSer
TATGGAACAAAAGCTCAACACATTAAAACGGACTCTGGAAAAGCGAGAGCAGGATGCAAA

2600

AlaGlyArgThrLysLysLys***ArgCysTyrValLeuGlyAlaArgTyr***AsnAla
LeuAlaGluGlnArgLysAsnAspValValMetTyrLeuAlaHisAspIleLysThrPro
TrpProAsnLysGluLysMetThrLeuLeuCysThrTrpArgThrIleLeuLysArgPro
GCTGGCCGAACAAAGAAAAAATGACGTTGTTATGTACTTGGCGCACGATATTAAAACGCC

2700

ProTyrIleHisTyrArgLeuPheGluProAla***ArgGlySerArgHisAlaGlyArg
 LeuThrSerIleIleGlyTyrLeuSerLeuLeuAspGluAlaProAspMetProValAsp
 LeuHisProLeuSerValIle***AlaCysLeuThrArgLeuGlnThrCysArg***Ile
 CCTTACATCCATTATCGGTTATTTGAGCCTGCTTGACGAGGCTCCAGACATGCCGGTAGA

SerLysGlyLysValCysAlaTyrHisValGlyGlnSerValSerThrArgThrAlaAsn
 GlnLysAlaLysTyrValHisIleThrLeuAspLysAlaTyrArgLeuGluGlnLeuIle
 LysArgGlnSerMetCysIleSerArgTrpThrLysArgIleAspSerAsnSer***Ser
 TCAAAAGGCAAAGTATGTGCATATCACGTTGGACAAAGCGTATCGACTCGAACAGCTAAT

2800

ArgArgValPhe***AspTyrThrVal***ProThrAsnAspAsnAlaAsnLysAsnAla
 AspGluPhePheGluIleThrArgTyrAsnLeuGlnThrIleThrLeuThrLysThrHis
 ThrSerPheLeuArgLeuHisGlyIleThrTyrLysArg***Arg***GlnLysArgThr
 CGACGAGTTTTTTGAGATTACACGGTATAACCTACAAACGATAACGCTAACAAAAACGCA

HisArgProIleLeuTyrAlaGlyAlaAspAspArg***IleLeuSerSerAlaPheArg
 IleAspLeuTyrTyrMetLeuValGlnMetThrAspGluPheTyrProGlnLeuSerAla
 ThrTyrThrIleCysTrpCysArgProMetAsnPheIleLeuSerPheProHis
 CATAGACCTATACTATATGCTGGTGCAGATGACCGATGAATTTTATCCTCAGCTTTCCGC

2900

ThrTrpLysThrGlyGlyTyrSerArgProArgGlySerAspArgValArgArgPro***
 HisGlyLysGlnAlaValIleHisAlaProGluAspLeuThrValSerGlyAspProAsp
 MetGluAsnArgArgLeuPheThrProProArgIle***ProCysProAlaThrLeuIle
 ACATGGAAAACAGGCGGTTATTCACGCCCCGAGGATCTGACCGTGTCCGGCGACCCTGA

3000

ThrArgGluSerLeuGlnHisPheGluLysArgArgCysIleGln***Gly***
 LysLeuAlaArgValPheAsnAsnIleLeuLysAsnAlaAlaAlaTyrSerGluAspAsn
 AsnSerArgGluSerLeuThrThrPhe***LysThrProLeuHisThrValArgIleThr
 TAAACTCGCGAGAGTCTTTAACAACATTTTGAAAAACGCCGCTGCATACAGTGAGGATAA

GlnHisHis***HisTyrArgGlyProLeuArgGlyCysGlyValAsnArgIleGlnGlu
 SerIleIleAspIleThrAlaGlyLeuSerGlyAspValValSerIleGluPheLysAsn
 AlaSerLeuThrLeuProArgAlaSerProGlyMetTrpCysGlnSerAsnSerArgThr
 CAGCATCATTGACATTACCGCGGGCCTCTCCGGGGATGTGGTGTCAATCGAATTCAAGAA

3100

HisTrpLysHisProLysArg***AlaSerCysHisIle***LysValLeu***AlaGly
 ThrGlySerIleProLysAspLysLeuAlaAlaIlePheGluLysPheTyrArgLeuAsp
 LeuGluAlaSerGlnLysIleSer***LeuProTyrLeuLysSerSerIleGlyTrpThr
 CACTGGAAGCATCCCAAAGATAAGCTAGCTGCCATATTGAAAGTTCTATAGGCTGGA

GlnPheSerPhePheArgTyrGlyTrpArgGlyThrTrpIleGlyAspCysLysArgAsn
 AsnSerArgSerSerAspThrGlyGlyAlaGlyLeuGlyLeuAlaIleAlaLysGluIle
 IleLeuValLeuProIleArgValAlaArgAspLeuAspTrpArgLeuGlnLysLysLeu
 CAATTCTCGTTCTTCCGATACGGGTGGCGCGGGACTTGGATTGCGGATTGCAAAGAAAT

3200

TyrCysSerAlaTrpArgAlaAspLeuArgGlyLysLeu*****LeuTyrAspVal***
 IleValGlnHisGlyGlyGlnIleTyrAlaGluSerTyrAspAsnTyrThrThrPheArg
 LeuPheSerMetGluGlyArgPheThrArgLysAlaMetIleThrIleArgArgLeuGly
 TATTGTTTCAGCATGGAGGGCAGATTTACGCGGAAAGCTATGATAACTATACGACGTTTAG

3300

GlyArgAlaSerSerAspAlaArgLeuGly*****LysGluValLeuArgAspValTyr
 ValGluLeuProAlaMetProAspLeuValAspLysArgArgSer***GluMetTyrIle
 SerPheGlnArgCysGlnThrTrpLeuIleLysGlyGlyProLysArgCysIle
 GGTAGAGCTTCCAGCGATGCCAGACTTGGTTGATAAAAGGAGGTCCTAAGAGATGTATAT

AsnPheLeuGlyLysSerGlnGlyTyrLeuTyrPhePheLeuGlyAsn***GlnPheAsn
 IlePhe***GluAsnLeuLysValIlePheThrPheSer***GluIleAsnAsnLeuIle
 PhePheArgLysIleSerArgLeuSerLeuLeuPheLeuArgLysLeuThrIle***Tyr
 AATTTTTTAGGAAAATCTCAAGGTTATCTTTACTTTTTCTTAGGAAATTAACAATTTAAT

3400

IleLysLysArgLeuValLeuThrArg***Thr***TyrArgLysAsnGluProPheSer
 LeuArgAsnGlySerPheLeuHisGlyArgLeuAsnThrValArgThrSerArgPheArg
 GluThrAlaArgSerTyrThrValAspLeuIleProGluArgAlaValPheVal
 ATTAAGAAACGGCTCGTTCTTACACGGTAGACTTAATACCGTAAGAACGAGCCGTTTTTCG

PhePheArgGluArgPheAspLysIleThrIleGlyIleProValLeuPheGlyAlaPhe
 SerSerGluLysAspLeuThrArgLeuProLeuAlaSerProPheTyrLeuValProPhe
 LeuGlnArgLysIle***GlnAspTyrHisTrpHisProArgPheIleTrpCysLeuSer
 TTCTTCAGAGAAAGATTTGACAAGATTACCATTGGCATCCCCGTTTTATTTGGTGCCTTT

3500

HisArgLysGlyTrpSer***Leu***IleThrSerAlaLeuLeuPheMetAspValSer
 ThrGluArgValGlyLeuAsnTyrGlu***HisArgHisTyrCysLeuTrpMet***Ala
 GlnLysGlyLeuValLeuIleMetAsnAsnIleGlyIleThrValTyrGlyCysGluGln
 CACAGAAAGGGTTGGTCTTAATTATGAATAACATCGGCATTACTGTTTATGGATGTGAGC

3600

ArgMetArgGlnMetHisSerMetLeuPheArgLeuAlaLeuAlaLeuTrpGlnArg***
 Gly***GlyArgCysIleProCysSerPheAlaSerLeuTrpArgTyrGlyAsnAspAsn
 AspGluAlaAspAlaPheHisAlaLeuSerProArgPheGlyValMetAlaThrIleIle
 AGGATGAGGCAGATGCATTCCATGCTCTTTCGCCTCGCTTTGGCGTTATGGCAACGATAA

LeuThrProThrCysArgAsnProThrProAsnProArgLeuSerIleAsnValSerVal
 ***ArgGlnArgValGlyIleGlnArgGlnIleArgAlaPheGlnSerMetTyrGlnCys
 AsnAlaAsnValSerGluSerAsnAlaLysSerAlaProPheAsnGlnCysIleSerVal
 TTAACGCCAACGTGTCGGAATCCAACGCCAAATCCGCGCCTTCAATCAATGTATCAGTG

3700

TrpAspIleAsnGlnArgPheProProLeuPhePheLeuArg***ArgGluProVal***
 GlyThr***IleArgAspPheArgLeuTyrSerSerCysAlaGluGluSerArgCysGlu
 GlyHisLysSerGluIleSerAlaSerIleLeuLeuAlaLeuLysArgAlaGlyValLys
 TGGGACATAAATCAGAGATTTCCGCCTCTATTCTTCTTGCGCTGAAGAGAGCCGGTGTGA

AsnIlePheLeuProGluAlaSerAlaAlaIleIle***IleGlnLeuLeuLeuArgGlu
 IleTyrPheTyrProLysHisArgLeuGlnSerTyrArgTyrAsnCysCys***GluAsn
 TyrIleSerThrArgSerIleGlyCysAsnHisIleAspThrThrAlaAlaLysArgMet
 AATATATTTCTACCCGAAGCATCGGCTGCAATCATATAGATACAACTGCTGCTAAGAGAA

3800

TrpAlaSerLeuSerThrMetTrpArgThrArgArgIleAlaLeuProIleIleLeu***
 GlyHisHisCysArgGlnCysGlyValLeuAlaGly***ArgCysArgLeuTyrTyrAsp
 GlyIleThrValAspAsnValAlaTyrSerProAspSerValAlaAspTyrThrMetMet
 TGGGCATCACTGTCGACAATGTGGCGTACTCGCCGGATAGCGTTGCCGATTATACTATGA

3900

Cys***PheLeuTrpGlnTyrAlaThr***AsnArgLeuCysAlaLeuTrpLysAsnMet
 AlaAsnSerTyrGlySerThrGlnArgLysIleAspCysAlaLeuCysGlyLysThr***
 LeuIleLeuMetAlaValArgAsnValLysSerIleValArgSerValGluLysHisAsp
 TGCTAATTCTTATGGCAGTACGCAACGTAAAATCGATTGTGCGCTCTGTGGAAAAACATG

IleSerGlyTrpThrAlaThrValAlaArgTyrSerAlaThr***GlnLeuValTrpTrp
 PheGlnValGlyGlnArgProTrpGlnGlyThrGlnArgHisAspSerTrpCysGlyGly
 PheArgLeuAspSerAspArgGlyLysValLeuSerAspMetThrValGlyValValGly
 ATTCAGGTTGGACAGCGACCGTGGCAAGGTACTCAGCGACATGACAGTTGGTGTGGTGG

4000

GluArgAlaArg***AlaLysArgLeuLeuSerGlyCysGluAspLeuAspValLysCys
 AsnGlyProAspArgGlnSerGlyTyr***AlaAlaAlaArgIleTrpMet***SerVal
 ThrGlyGlnIleGlyLysAlaValIleGluArgLeuArgGlyPheGlyCysLysValLeu
 GAACGGGCCAGATAGGCAAAGCGGTTATTGAGCGGCTGCGAGGATTGGATGTAAAGTGT

TrpLeuIleValAlaAlaGluVal***Arg***ThrMetTyrArgLeuMetSerCysCys
 GlyLeu***SerGlnProLysTyrArgGlyLysLeuCysThrVal*****ValAlaAla
 AlaTyrSerArgSerArgSerIleGluValAsnTyrValProPheAspGluLeuLeuGln
 TGGCTTATAGTCGCAGCCGAAGTATAGAGGTAAACTATGTACCGTTTGATGAGTTGCTGC

4100

LysIleAlaIleSerLeuArgPheMetCysArgSerIleArgIleArgThrIleLeuSer
 Lys***ArgTyrArgTyrAlaSerCysAlaAlaGlnTyrGlyTyrAlaLeuTyrTyrGln
 AsnSerAspIleValThrLeuHisValProLeuAsnThrAspThrHisTyrIleIleSer
 AAAATAGCGATATCGTTACGCTTCATGTGCCGCTCAATACGGATACGCACTATATTATCA

4200

AlaThrAsnLysTyrArgGlu***SerLysGluHisPheLeuSerIleLeuGlyAlaVal
 ProArgThrAsnThrGluAsnGluAlaArgSerIleSerTyrGlnTyrTrpAlaArgSer
 HisGluGlnIleGlnArgMetLysGlnGlyAlaPheLeuIleAsnThrGlyArgGlyPro
 GCCACGAACAAATACAGAGAATGAAGCAAGGAGCATTCTTATCAATACTGGGCGCGGTC

HisLeu***IleProMetSerTrpLeuLysHis***LysThrGlyAsnTrpAlaValPro
 ThrCysArgTyrLeu***ValGly***SerIleArgLysArgGluThrGlyArgCysArg
 LeuValAspThrTyrGluLeuValLysAlaLeuGluAsnGlyLysLeuGlyGlyAlaAla
 CACTTGTAGATACCTATGAGTTGGTTAAAGCATTAGAAAACGGAAACTGGGCGGTGCCG

4300

HisTrpMetTyrTrpLysGluArgLysSerPheSerThrLeuIleAlaProLysAsnGln
 IleGlyCysIleGlyArgArgGlyArgValPheLeuLeu***LeuHisProLysThrAsn
 LeuAspValLeuGluGlyGluGluGluPhePheTyrSerAspCysThrGlnLysProIle
 CATTGGATGTATTGGAAGGAGAGGAAGAGTTTTCTACTCTGATTGCACCCAAAAACCAA

LeuIleIleAsnPheTyrLeuAsnPheLysGluCysLeuThr*****SerHisArgIle
 *****SerIlePheThr***ThrSerLysAsnAla***ArgAspAsnHisThrAlaTyr
 AspAsnGlnPheLeuLeuLysLeuGlnArgMetProAsnValIleIleThrProHisThr
 TTGATAATCAATTTTTACTTAACTTCAAAGAATGCCTAACGTGATAATCACACCGCATA

4400

ArgProIleIleProSerLysArgCysValIleProLeuLysLysProLeuLysThrVal
 GlyLeuLeuTyrArgAlaSerValAla***TyrArg***LysAsnHis***LysLeuPhe
 AlaTyrTyrThrGluGlnAlaLeuArgAspThrValGluLysThrIleLysAsnCysLeu
 CGGCCTATTATACCGAGCAAGCGTTGCGTGATACCGTTGAAA-AACCATTAAAACTGTT

4500

TrpIleLeuLysGlyAspArgSerMetAsnArgIleLysValAlaIleLeuPheGlyGly
 GlyPhe***LysGluThrGlyAla***IleGlu***LysLeuGlnTyrCysLeuGlyVal
 AspPheGluArgArgGlnGluHisGlu***AsnLysSerCysAsnThrValTrpGlyLeu
 TGGATTTTGAAGGAGACAGGAGCATGAATAGAATAAAAGTTGCAATACTGTTTGGGGGT

CysSerGluGluHisAspValSerValLysSerAlaIleGluIleAlaAlaAsnIleAsn
 AlaGlnArgSerMetThrTyrArg***AsnLeuGln***Arg***ProLeuThrLeuIle
 LeuArgGlyAla***ArgIleGlyLysIleCysAsnArgAspSerArg***His*****
 TGCTCAGAGGAGCATGACGTATCGGTAAATCTGCAATAGAGATAGCCGCTAACATTAAT

4600

LysGluLysTyrGluProLeuTyrIleGlyIleThrLysSerGlyValTrpLysMetCys
 LysLysAsnThrSerArgTyrThrLeuGluLeuArgAsnLeuValTyrGlyLysCysAla
 ArgLysIleArgAlaValIleHisTrpAsnTyrGluIleTrpCysMetGluAsnValArg
 AAAGAAAATACGAGCCGTTATACATTGGAATTACGAAATCTGGTGTATGGAAAATGTGC

GluLysProCysAlaGluTrpGluAsnAspAsnCysTyrSerAlaValLeuSerProAsp
 LysAsnLeuAlaArgAsnGlyLysThrThrIleAlaIleGlnLeuTyrSerArgArgIle
 LysThrLeuArgGlyMetGlyLysArgGlnLeuLeuPheSerCysThrLeuAlaGly**
 GAAAAACCTTGCGCGGAATGGGAAAACGACAATTGCTATTCAGCTGTACTCTCGCCGGAT

4700

LysLysMetHisGlyLeuLeuValLysLysAsnHisGluTyrGluIleAsnHisValAsp
 LysLysCysThrAspTyrLeuLeuLysArgThrMetAsnMetLysSerThrMetLeuMet
 LysAsnAlaArgIleThrCys***LysGluPro***Ile***AsnGlnProCys***Cys
 AAAAAATGCACGGATTACTTGTTAAAAAGAACCATGAATATGAAATCAACCATGTTGAT

4800

ValAlaPheSerAlaLeuHisGlyLysSerGlyGluAspGlySerIleGlnGlyLeuPhe
 ***HisPheGlnLeuCysMetAlaSerGlnValLysMetAspProTyrLysValCysLeu
 SerIlePheSerPheAlaTrpGlnValArg***ArgTrpIleHisThrArgSerVal***
 GTAGCATTTTCAGCTTTCATGGCAAGTCAGGTGAAGATGGATCCATACAAGGTCTGTTT

 GluLeuSerGlyIleProPheValGlyCysAspIleGlnSerSerAlaIleCysMetAsp
 AsnCysProValSerLeuLeu***AlaAlaIlePheLysAlaGlnGlnPheValTrpThr
 IleValArgTyrProPheCysArgLeuArgTyrSerLysLeuSerAsnLeuTyrGlyGln
 GAATTGTCCGGTATCCCTTTTGTAGGCTGCGATATTCAAAGCTCAGCAATTTGTATGGAC
 4900 . . .
 LysSerLeuThrTyrIleValAlaLysAsnAlaGlyIleAlaThrProAlaPheTrpVal
 AsnArg***HisThrSerLeuArgLysMetLeuGly***LeuLeuProProPheGlyLeu
 IleValAspIleHisArgCysGluLysCysTrpAspSerTyrSerArgLeuLeuGlyTyr
 AAATCGTTGACATACATCGTTGCGAAAAATGCTGGGATAGCTACTCCCGCCTTTTGGGTT

 IleAsnLysAspAspArgProValAlaAlaThrPheThrTyrProValPheValLysPro
 LeuIleLysMetIleGlyArgTrpGlnLeuArgLeuProIleLeuPheLeuLeuSerArg
 *****Arg*****AlaGlyGlySerTyrValTyrLeuSerCysPheCys***AlaGly
 ATTAATAAAGATGATAGGCCGGTGGCAGCTACGTTTACCTATCCTGTTTTTGTAAAGCCG
 5000 . . .
 AlaArgSerGlySerSerPheGlyValLysLysValAsnSerAlaAspGluLeuAspTyr
 ArgValGlnAlaHisProSerVal***LysLysSerIleAlaArgThrAsnTrpThrThr
 AlaPheArgLeuIleLeuArgCysGluLysSerGln***ArgGlyArgIleGlyLeuArg
 GCGCGTTCAGGCTCATCCTTCGGTGTGAAAAAAGTCAATAGCGCGGACGAATTGGACTAC
 5100 . . .

AlaIleGluSerAlaArgGlnTyrAspSerLysIleLeuIleGluGlnAlaValSerGly
 GlnLeuAsnArgGlnAspAsnMetThrAlaLysSer***LeuSerArgLeuPheArgAla
 Asn***IleGlyLysThrIle***GlnGlnAsnLeuAsn***AlaGlyCysPheGlyLeu
 GCAATTGAATCGGCAAGACAATATGACAGCAAATCTTAATTGAGCAGGCTGTTTCGGGC

CysGluValGlyCysAlaValLeuGlyAsnSerAlaAlaLeuValValGlyGluValAsp
 ValArgSerValValArgTyrTrpGluThrValProArg***LeuLeuAlaArgTrpThr
 ***GlyArgLeuCysGlyIleGlyLysGlnCysArgValSerCysTrpArgGlyGlyPro
 TGTGAGGTCGGTTGTGCGGTATTGGGAAACAGTGCCGCGTTAGTTGTTGGCGAGGTGGAC

5200

GlnIleArgLeuGlnTyrGlyIlePheArgIleHisGlnGluValGluProGluLysGly
 LysSerGlyCysSerThrGluSerPheValPheIleArgLysSerSerArgLysLysAla
 AsnGlnAlaAlaValArgAsnLeuSerTyrSerSerGlySerArgAlaGlyLysArgLeu
 CAAATCAGGCTGCAGTACGGAATCTTTCGTATTTCATCAGGAAGTCGAGCCGGAAAAAGGC

SerGluAsnAlaValIleThrValProAlaAspLeuSerAlaGluGluArgGlyArgIle
 LeuLysThrGlnLeu***ProPheProGlnThrPheGlnGlnArgSerGluAspGlyTyr
 ***LysArgSerTyrAsnArgSerArgArgProPheSerArgGlyAlaArgThrAspThr
 TCTGAAAACGCAGTTATAACCGTTCCCGCAGACCTTTCAGCAGAGGAGCGAGGACGGATA

5300

GlnGluThrAlaLysLysIleTyrLysAlaLeuGlyCysArgGlyLeuAlaArgValAsp
 ArgLysArgGlnLysLysTyrIleLysArgSerAlaValGluVal***ProValTrpIle
 GlyAsnGlyLysLysAsnIle***SerAlaArgLeu***ArgSerSerProCysGlyTyr
 CAGGAAACGGCAAAAAAATATATAAAGCGCTCGGCTGTAGAGGTCTAGCCCGTGTGGAT

5400

MetPheLeuGlnAspAsnGlyArgIleValLeuAsnGluValAsnThrLeuProGlyPhe
 CysPheTyrLysIleThrAlaAlaLeuTyr***ThrLysSerIleLeuCysProValSer
 ValPheThrArg***ArgProHisCysThrGluArgSerGlnTyrSerAlaArgPheHis
 ATGTTTTTACAAGATAACGGCCGCATTGTACTGAACGAAGTCAATACTCTGCCCCGGTTTC

ThrSerTyrSerArgTyrProArgMetMetAlaAlaAlaGlyIleAlaLeuProGluLeu
 ArgHisThrValValIleProVal***TrpProLeuGlnValLeuHisPheProAsn***
 ValIleGlnSerLeuSerProTyrAspGlyArgCysArgTyrCysThrSerArgThrAsp
 ACGTCATACAGTCGTTATCCCCGTATGATGGCCGCTGCAGGTATTGCACTTCCCGAAGT

5500

IleAspArgLeuIleValLeuAlaLeuLysGly*****AlaTrpLys***AspLeuLeu
 LeuThrAla***SerTyr***Arg***ArgGlyAspLysHisGlyAsnArgIleTyrPhe
 ***ProLeuAspArgIleSerValLysGlyValIleSerMetGluIleGlyPheThrPhe
 ATTGACCGCTTGATCGTATTAGCGTTAAAGGGGTGATAAGCATGGAAATAGGATTTACTT

Phe***MetLys***TyrThrValPheValGlyThrLeuAsnMetProLeuGlyIleIle
 PheArg***AsnSerThrArgCysSerLeuGlyArg***IleCysHisLeuGly***Phe
 LeuAspGluIleValHisGlyValArgTrpAspAlaLysTyrAlaThrTrpAspAsnPhe
 TTTTAGATGAAATAGTACACGGTGTTTCGTTGGGACGCTAAATATGCCACTTGGGATAATT

5600

SerProGluAsnArgLeuThrValMetLys***IleAlaLeu***GlyHisThrSerTrp
 HisArgLysThrGly***ArgLeu***SerLysSerHisCysArgAspIleArgValGly
 ThrGlyLysProValAspGlyTyrGluValAsnArgIleValGlyThrTyrGluLeuAla
 TCACCGGAAAACCGGTTGACGGTTATGAAGTAAATCGCATTGTAGGGACATACGAGTTGG

5700

LeuAsnArgPhe***ArgGlnLysAsnTrpLeuLeuProLysGlyThrAspCysPheTyr
 ***IleAlaPheGluGlyLysArgThrGlyCysTyrProArgValArgIleAlaSerMet
 GluSerLeuLeuLysAlaLysGluLeuAlaAlaThrGlnGlyTyrGlyLeuLeuLeuTrp
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GlyThrValThrValLeuSerValLeu***ThrValLeuCysAsnGlyLeuHisSerArg
 GlyArgLeuProSer***AlaCysCysLysLeuPheTyrAlaMetGlyCysThrAlaGly
 AspGlyTyrArgProLysArgAlaValAsnCysPheMetGlnTrpAlaAlaGlnProGlu

GGGACGGTTACCGTCCTAAGCGTGCTGTAAACTGTTTATGCAATGGGCTGCACAGCCGG

5800

LysIleThr***GlnArgLysValIleIleProIleLeuThrGluLeuArg***PheGln
 Lys***ProAspLysGlyLysLeuLeuSerGlnTyr***ProAsn***AspAspPheLys
 AsnAsnLeuThrLysGluSerTyrTyrProAsnIleAspArgThrGluMetIleSerLys
 AAAATAACCTGACAAAGGAAAGTTATTATCCCAATATTGACCGAAGTGGAGATGATTTCAA

LysAspThrTrpLeuGlnAsnGlnAlaIleAlaAlaAlaValProLeuIleLeuArgPhe
 ArgIleArgGlyPheLysIleLysPro***ProArgGlnCysHis***SerTyrAlaLeu
 GlyTyrValAlaSerLysSerSerHisSerArgGlySerAlaIleAspLeuThrLeuTyr
 AAGGATACGTGGCTTCAAAATCAAGCCATAGCCGCGCAGTGCCATTGATCTTACGCTTT

5900

IleAsp***ThrArgValSerLeuTyrGlnTrpGlyAlaAspLeuIleLeuTrpMetAsn
 SerIleArgHisGly***AlaCysThrAsnGlyGluProIle***PheTyrGly***Thr
 ArgLeuAspThrGlyGluLeuValProMetGlySerArgPheAspPheMetAspGluArg
 ATCGATTAGACACGGGTGAGCTTGTACCAATGGGGAGCCGATTGATTTTATGGATGAAC

6000

AlaLeuIleMetArgGlnMetGluTyrHisAlaMetLysArgLysIleAlaAspValCys
 LeuSerSerCysGlyLysTrpAsnIleMetGln***SerAlaLysSerGlnThrPheAla
 SerHisHisAlaAlaAsnGlyIleSerCysAsnGluAlaGlnAsnArgArgArgLeuArg
 GCTCTCATCATGCGGCAAATGGAATATCATGCAATGAAGCGCAAATCGCAGACGTTTGC

AlaProSerTrpLysThrValGlyLeuLysHisIleAlaSerAsnGlyGlyThrMetTyr
 LeuHisHisGlyLysGlnTrpVal***SerIle***ProArgMetValAlaLeuCysIle
 SerIleMetGluAsnSerGlyPheGluAlaTyrSerLeuGluTrpTrpHisTyrValLeu
 GCTCCATCATGGAAAACAGTGGGTTTGAAGCATATAGCCTCGATGGTGGCACTATGTAT

6100

***GluThrAsnHisThrProIleAlaIleLeuIleSerProLeuAsnLysLeuLeuThr
 LysArgArgThrIleProGln***LeuPhe***PheProArg***IleAsnPhe***Pro
 ArgAspGluProTyrProAsnSerTyrPheAspPheProValLys***ThrPheAsnArg
 TAAGAGACGAACCATACCCCAATAGCTATTTTGATTTCCTCGTAAATAAACTTTTAACC

ValAlaArgThrAsnTyrIleSer***LeuPheArgGlnGluThrArgArgMet***Leu
 LeuHisGlyGlnThrIle***AlaAsnSerPheGlyArgLysProAspValCysAsnTrp
 CysThrAspLysLeuTyrLysLeuThrLeuSerAlaGlyAsnProThrTyrValThrGly
 GTTGACACGGACAACTATATAAGCTAACTCTTTCGGCAGGAAACCCGACGTATGTAACG

6200

ValLeuArgGluPheIleTyrSerArg***Tyr***ArgCysLysAlaGluArgTyrCys
 PheLeuGlyAsnLeuTyrIleValAspSerIleGluAspValArgGlnSerAspIleAla
 Ser***GlyIleTyrIle*****IleValLeuLysMet***GlyArgAlaIleLeuArg
 GTTCTTAGGGAATTTATATATAGTAGATAGTATTGAAGATGTAAGGCAGAGCGATATTGC

6300

GlyHisTyrLeuArgAlaLeuArgGlnAspSerLeuIleIleArgLeuIleAla***Arg
 ValIleIleCysValArgCysGlyLysIleAla*****Asp***SerHisArgGly
 SerLeuSerAlaCysAlaAlaAlaArg***ProAspAsnLysThrAspArgIleGluGly
 GGTCATTATCTGCGTGCGCTGCGGCAAGATAGCCTGATAATAAGACTGATCGCATAGAGG

GlyGlyIleSerHisArgProLeuSerThrGlySerSerAlaSerLeuAsnSerAlaTrp
 ValValPheHisThrAlaHisCysGlnGlnAlaValGlnProArg***IleGlnHisGly
 TrpTyrPheThrProProIleValAsnArgGlnPheSerLeuValLysPheSerMetGly
 GGTGGTATTTACACCGCCCATTTGTCAACAGGCAGTTCAGCCTCGTTAAATTCAGCATGG

6400

ValSerLeuMetLysIleHisLeuHisTrp*****IleGln***GlyGluIle
 TyrHisLeu***LysPheIleTyrIleGlyAspAsnSerLysSerSerArgAlaLys***
 IleThrTyrGluAsnSerSerThrLeuValIleIleValAsnProValGlyArgAsnAsn
 GTATCACTTATGAAAATTCATCTACATTGGTGATAATAGTAAATCCAGTAGGGCGAAATA

IleAspCysAsnLeuArgGlyLysThrAlaGlnSerGlnThrArgLeuCysArgLeuArg
 LeuThrValIleTyrGlyAlaLysArgHisAsnLeuLysArgAspCysAlaVal***Gly
 LeuPheThrGlyGlnAsnGlyThrIleSerAsnGluIleValProPheLysGly
 ATTGACTGTAATTTACGGGGCAAACGGCACAAATCTCAAACGAGATTGTGCCGTTTAAGG

6500

GlyArgPhe***LysTyrPheIleLeuProThrIle***LeuArgArgArgLeuLysMet
 GluAspSerArgAsnIleSerTyrPheGlnLeuTyrSer***GlyGlyAsp***Lys***
 LysIleLeuGluIlePheHisThrSerAsnTyrIleValLysGluGluThrGluAsnGlu
 GGAAGATTCTAGAAATATTTCACTTCCAACCTATATAGTTAAGGAGGAGACTGAAAATG

6600

LysLysLeuPhePheLeuLeuLeuLeuLeuPheLeuIleTyrLeuGlyTyrAspTyrVal
 ArgSerCysPhePheTyrCysTyrCysTyrSer***TyrThr***ValMetThrThrLeu
 GluValValPhePheIleValIleValIleLeuAsnIleLeuArgLeu***LeuArg***
 AAGAAGTTGTTTTTTTTATTGTTATTGTTATTCTTAATATACTTAGGTTATGACTACGTT

AsnGluAlaLeuPheSerGlnGluLysValGluPheGlnAsnTyrAspGlnAsnProLys
 MetLysHisCysPheLeuArgLysLysSerAsnPheLysIleMetIleLysIleProLys
 SerThrValPheSerGlyLysSerArgIleSerLysLeuSerLysSerGlnArg

AATGAAGCACTGTTTTCTCAGGAAAAAGTCGAATTTCAAATTATGATCAAAATCCCAA

6700

GluHisLeuGluAsnSerGlyThrSerGluAsnThrGlnGluLysThrIleThrGluGlu
 AsnIle***LysIleValGlyLeuLeuLysIleProLysArgLysGlnLeuGlnLysAsn
 ThrPheArgLys***TrpAspPhe***LysTyrProArgGluAsnAsnTyrArgArgThr
 GAACATTTAGAAAATAGTGGGACTTCTGAAAATACCCAAGAGAAAACAATTACAGAAGAA

GlnValTyrGlnGlyAsnLeuLeuLeuIleAsnSerLysTyrProValArgGlnGluVal
 ArgPheIleLysGluIleCysTyr***SerIleValAsnIleLeuPheAlaLysLysCys
 GlyLeuSerArgLysSerAlaIleAsnGln*****IleSerCysSerProArgSerVal
 CAGGTTTATCAAGGAAATCTGCTATTAATCAATAGTAAATATCCTGTTCCCAAGAAGTG

6800

SerGlnIleSerIleTyrLeuAsnMetThrAsn*****MetAspThrGlyCys
 GluValArgTyrArgGluPheIle***Thr***ArgIleAsnLysTrpIleArgValAla
 LysSerAspIleValAsnLeuSerLysHisAspGluLeuIleAsnGlyTyrGlyLeuLeu
 TGAAGTCAGATATCGTGAATTTATCTAAACATGACGAATTAATAAATGGATACGGGTTGC

6900

LeuIleValIlePheIleCysGlnLysLys***HisLysAsnPheGlnArgTrpSerMet
 *****TyrLeuTyrValLysArgAsnSerThrLysIlePheArgAspGlyGln***
 AspSerAsnIleTyrMetSerLysGluIleAlaGlnLysPheSerGluMetValAsnAsp
 TTGATAGTAATATTTATATGTCAAAGAAATAGCACAAAATTTTCAGAGATGGTCAATG

MetLeu***ArgValAlaLeuValIleLeuLeuLeuIleValAlaIleGluThrLeuMet
 CysCysLysGlyTrpArg***SerPheTyrTyr*****TrpLeuSerArgLeu*****
 AlaValLysGlyGlyValSerHisPheIleIleAsnSerGlyTyrArgAspPheAspGlu

ATGCTGTAAAGGGTGGCGTTAGTCATTTTATTATTAAATAGTGGCTATCGAGACTTTGATG

7000

SerLysValCysPheThrLysLysTrpGlyLeuSerMetProTyrGlnGlnValIleVal

AlaLysCysAlaLeuProArgAsnGlyGly***ValCysLeuThrSerArgLeu*****

GlnSerValLeuTyrGlnGluMetGlyAlaGluTyrAlaLeuProAlaGlyTyrSerGlu

AGCAAAGTGTGCTTTACCAAGAAATGGGGGCTGAGTATGCCTTACCAGCAGGTTATAGTG

SerIleIleGlnValTyrHis***Met***AspGlnAla***ArgLysTrpAsnGluPro

Ala***PheArgPheIleThrArgCysArgIleLysLeuAspGluAsnGlyThrSerPro

HisAsnSerGlyLeuSerLeuAspValGlySerSerLeuThrLysMetGluArgAlaPro

AGCATAATTCAGGTTTATCACTAGATGTAGGATCAAGCTTGACGAAAATGGAACGAGCCC

7100

LeuLysGluSerGly***LysLysMetLeuGlyAsnThrGlySerPheTyrValIleGln

***ArgLysValAspArgArgLysCysLeuGluIleArgValHisPheThrLeuSerArg

GluGlyLysTrpIleGluGluAsnAlaTrpLysTyrGlyPheIleLeuArgTyrProGlu

CTGAAGGAAAGTGGATAGAAGAAAATGCTTGGAAATACGGGTTTCATTTTACGTTATCCAG

7200

ArgThrLysGlnSer***GlnGluPhe
GlyGlnAsnArgValAsnArgAsnSer
AspLysThrGluLeuThrGlyIleGln
AGGACAAAACAGAGTTAACAGGAATTC

7227

<p> <i>Exon IV</i> GATATCGTTACGCTTCATGTGCCGCTCAATACGGATACGCACTATATTATCAGCCACGAACAAA </p>		64
<p> TACAGAGAATGAAGCAAGGAGCATTTCCTTATCAATACTGGGCGCGGTCCACTTGTAGATACCTATGAGTTGGTTAAAGCATTAGAAAACGG </p>		155
<p> GAAACTGGGCGGTGCCGCAATTGGATGTATTGGAAGGAGAGGAGITTTTCTACTCTGATTGCACCCAAAAACCAATTGATAATCAATTT </p>		266
<p> TTACTTAAACTTCAAAGAATGCCTAACGTGATAATCACACCGCATACGGCCTATTATACCGAGCAAGCGTTGCGTGATACCGTTGAAAAAA </p>		337
<p> <i>RBS</i> </p>		
<p> CCATTAAAACTGTTTGGATTGTTGAAAGGAGACAGGAGC </p>		415
<p> SER GLU GLU HIS ASP VAL SER VAL LYS SER ALA ILE OLD ILE ALA ALA ASP ILE ASP LYS OLD LYS TYR </p>		484
<p> TCA GAG GAG CAT GAC GTA TCG GTA AAA TCT GCA ATA GAG ATA GCC GCT AAC ATT AAT AAA GAA AAA TAC </p>		553
<p> GLU PRO LEU TYR ILE OLY ILE THR LYS SER OLY VAL TRP LYS MET CYS OLD LYS PRO CYS ALA OLD TRP </p>		622
<p> GAG CCG TTA TAC ATT GGA ATT ACG AAA TCT GGT GTA TGG AAA ATG TGC GAA AAA CCT TGC GCG GAA TGG </p>		691
<p> GLU ASP ASP ASP CYS TYR SER ALA VAL LEU SER PRO ASP LYS LYS MET HIS OLY LEU VAL LYS LYS </p>		760
<p> GAA AAC GAC AAT TGC TAT TCA GCT GTA CTC TCG CCG GAT AAA AAA ATG CAC GGA TTA CTT GTT AAA AAG </p>		829
<p> ASP HIS OLD TYR OLD ILE ASP HIS VAL ASP VAL ALA PHE SER ALA LEU HIS OLY LYS SER OLY OLD ASP </p>		898
<p> AAC CAT GAA TAT GAA ATC AAC CAT GTT GAT GTA GCA TTT TCA GCT TTG CAT GGC AAG TCA GGT GAA GAT </p>		967
<p> GLY SER ILE OLD OLY LEU PHE OLD LEU SER OLY ILE PRO PHE VAL OLY CYS ASP ILE OLD SER SER ALA </p>		1036
<p> GGA TCC ATA CAA GGT CTG TTT GAA TTG TCC GGT ATC CCT TTT GTA GGC TGC GAT ATT CAA AGC TCA GCA </p>		1105
<p> ILE CYS MET ASP LYS SER LEU THR TYR ILE VAL ALA LYS ASP ALA GLY ILE ALA THR PRO ALA PHE TRP </p>		1174
<p> ATT TGT ATG GAC AAA TCG TTG ACA TAC ATC GTT GCG AAA AAT GCT GCG ATA GCT ACT CCC GCC TTT TGG </p>		1243
<p> VAL ILE ASP LYS ASP ASP ARG PRO VAL ALA ALA THR PHE THR TYR PRO VAL PHE VAL LYS PRO ALA ARG </p>		1312
<p> GTT ATT AAT AAA GAT GAT AGG CCG GTG GCA GCT ACG TTT ACC TAT CCT GTT TTT GTT AAG CCG GCG CGT </p>		1381
<p> SER OLY SER SER PHE OLY VAL LYS LYS VAL ASP SER ALA ASP OLD LEU ASP TYR ALA ILE OLD SER ALA </p>		1452
<p> TCA GGC TCA TCC TTC GGT GTG AAA AAA GTC AAT AGC GCG GAC GAA TTG GAC TAC GCA ATT GAA TCG GCA </p>		1521
<p> ARG OLD TYR ASP SER LYS ILE LEU ILE OLD OLD ALA VAL SER OLY CYS OLD VAL OLY CYS ALA VAL LEU </p>		1590
<p> AGA CAA TAT GAC AGC AAA ATC TTA ATT GAG CAG GCT GTT TCG GGC TGT GAG GTC GGT TGT GCG GTA TTG </p>		1659
<p> GLY ASP SER ALA ALA LEU VAL VAL OLY OLD VAL ASP OLD ILE ARG LEU OLD TYR OLY ILE PHE ARG ILE </p>		1728
<p> GGA AAC AGT GCC GCG TTA GTT GTT GGC GAG GTG GAC CAA ATC AGG CTG CAG TAC GGA ATC TTT CGT ATT </p>		1797
<p> HIS OLD OLD VAL OLD PRO OLD LYS OLY SER OLD ASP ALA VAL ILE THR VAL PRO ALA ASP LEU SER ALA </p>		1866
<p> CAT CAG GAA GTC GAG CCG GAA AAA GGC TCT GAA AAC GCA GTT ATA ACC GTT CCC GCA GAC CTT TCA GCA </p>		1935
<p> GLU OLD ARG OLY ARG ILE OLD OLD THR ALA LYS LYS ILE TYR LYS ALA LEU OLY CYS ARG OLY LEU ALA </p>		2004
<p> CAG GAG CGA GGA CGG ATA CAG GAA ACG GCA AAA AAA ATA TAT AAA GCG CTC GGC TGT AGA GGT CTA GCC </p>		2073
<p> ARG VAL ASP MET PHE LEU OLD ASP ASP OLY ARG ILE VAL LEU ASP OLD VAL ASP THR LEU PRO OLY PHE </p>		2142
<p> CGT GTG GAT ATG TTT TTA CAA GAT AAC GGC CGC ATT GTA CTG AAC GAA GTC AAT ACT CTG CCC GGT TTC </p>		2211
<p> THR SER TYR SER ARG TYR PRO ARG MET MET ALA ALA ALA OLY ILE ALA LEU PRO OLD LEU ILE ASP ARG </p>		2280
<p> ACG TCA TAC AGT CGT TAT CCC CGT ATG ATG GCC GCT GCA GGT ATT GCA CTT CCC GAA CTG ATT GAC CGC </p>		2349
<p> LEU ILE VAL LEU ALA LEU LYS OLY </p>		2418
<p> TTG ATC GTA TTA GCG TTA AAG GGG TGA TAA GCATGGAATAGGATTACTTTTTAGATGAAATAGTACACGGTGTTCGTT </p>		2487
<p> GGGACGCTAAATATGCCACTTGGGATAATTTACCGGAAAACCGGTTGACGGTTATGAAGTAAATCGCATTGTAGGGACATACGAGTTGGC </p>		2556
<p> TGAATCGCTTTTGAAGGCAAAAGAAGCTGGCTGCTACCCAAGGGTACGGATTGCTTCTATGGGACGGTTACCGTCCTAAGCGTGCTGTAAC </p>		2625
<p> TGTTTTATGCAATGGGCTGCACAGCCGGAATAACCTGACAAAGGAAAGTTATTATCCCAATATTGACCGAACTGAGATGATTTCAAAAAG </p>		2694
<p> GSATACGTGGCTTCAAAATCAAGCCATAGCCGCG </p>		2763

Fig. 6